OIPE

ENTERED

RAW SEQUENCE LISTING
PATENT APPLICATION: **US/10/040,949A**

DATE: 11/13/2002
TIME: 14:06:00

Input Set : **A:\EP.txt**
Output Set: **N:\CRF4\11132002\J040949A.raw**

```
  5 <110> APPLICANT: Introgene BV
  7        Havenga, Menzo
  9        Vogels, Ronald
 13 <120> TITLE OF INVENTION: Infection with chimaeric adenoviruses of cells negative for
the
 14        adenovirus serotype 5 Coxsacki adenovirus receptor (CAR)
 18 <130> FILE REFERENCE: 2183-5226US
 22 <140> CURRENT APPLICATION NUMBER: 10/040,949A
 24 <141> CURRENT FILING DATE: 2002-09-09
 28 <150> PRIOR APPLICATION NUMBER: WO01/04334
 30 <151> PRIOR FILING DATE: 2000-07-07
 34 <150> PRIOR APPLICATION NUMBER: EP 99202234.3
 36 <151> PRIOR FILING DATE: 1999-07-08
 40 <150> PRIOR APPLICATION NUMBER: US 60/142,557
 42 <151> PRIOR FILING DATE: 2000-07-07
 46 <160> NUMBER OF SEQ ID NOS: 58
 50 <170> SOFTWARE: PatentIn version 3.1
 54 <210> SEQ ID NO: 1
 56 <211> LENGTH: 23
 58 <212> TYPE: DNA
 60 <213> ORGANISM: Artificial Sequence
 64 <220> FEATURE:
 66 <223> OTHER INFORMATION: Description of Artificial Sequence: oligo linker
 68 <220> FEATURE:
 70 <221> NAME/KEY: misc_feature
 72 <222> LOCATION: (1)..(23)
 74 <223> OTHER INFORMATION: linker contains a PacI restriction site at positions 8-15
 78 <400> SEQUENCE: 1
 79 aattgtctta attaaccgct taa                                              23
 82 <210> SEQ ID NO: 2
 84 <211> LENGTH: 19
 86 <212> TYPE: DNA
 88 <213> ORGANISM: Artificial Sequence
 92 <220> FEATURE:
 94 <223> OTHER INFORMATION: Description of Artificial Sequence: oligonucleotide
 96 <220> FEATURE:
 98 <221> NAME/KEY: misc_feature
100 <222> LOCATION: (1)..(19)
102 <223> OTHER INFORMATION: oligonucleotide contains a PacI restriction site at
positions 8-1
103        5
107 <400> SEQUENCE: 2
108 aattgtctta attaaccgc                                                   19
111 <210> SEQ ID NO: 3
```

113 <211> LENGTH: 19

RAW SEQUENCE LISTING   DATE: 11/13/2002
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115 <212> TYPE: DNA
117 <213> ORGANISM: Artificial Sequence
121 <220> FEATURE:
123 <223> OTHER INFORMATION: Description of Artificial Sequence: oligonucleotide
125 <220> FEATURE:
127 <221> NAME/KEY: misc_feature
129 <222> LOCATION: (1)..(19)
131 <223> OTHER INFORMATION: oligonucleotide contains a PacI restriction site at
positions 9-1
132        6
136 <400> SEQUENCE: 3
137 aattgcggtt aattaagac                                              19
140 <210> SEQ ID NO: 4
142 <211> LENGTH: 47
144 <212> TYPE: DNA
146 <213> ORGANISM: Artificial Sequence
150 <220> FEATURE:
152 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
154 <220> FEATURE:
156 <221> NAME/KEY: misc_feature
158 <222> LOCATION: (1)..(47)
160 <223> OTHER INFORMATION: primer LTR-1
164 <400> SEQUENCE: 4
165 ctgtacgtac cagtgcactg gcctaggcat ggaaaaatac ataactg               47
168 <210> SEQ ID NO: 5
170 <211> LENGTH: 64
172 <212> TYPE: DNA
174 <213> ORGANISM: Artificial Sequence
178 <220> FEATURE:
180 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
182 <220> FEATURE:
184 <221> NAME/KEY: misc_feature
186 <222> LOCATION: (1)..(64)
188 <223> OTHER INFORMATION: primer LRT-2
192 <400> SEQUENCE: 5
193 gcggatcctt cgaaccatgg taagcttggt accgctagcg ttaaccgggc gactcagtca   60
195 atcg                                                             64
198 <210> SEQ ID NO: 6
200 <211> LENGTH: 28
202 <212> TYPE: DNA
204 <213> ORGANISM: Artificial Sequence
208 <220> FEATURE:
210 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
212 <220> FEATURE:
214 <221> NAME/KEY: misc_feature
216 <222> LOCATION: (1)..(28)
218 <223> OTHER INFORMATION: primer HSA1
222 <400> SEQUENCE: 6
223 gcgccaccat gggcagagcg atggtggc                                    28
226 <210> SEQ ID NO: 7
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RAW SEQUENCE LISTING   DATE: 11/13/2002
PATENT APPLICATION: US/10/040,949A   TIME: 14:06:00

Input Set : A:\EP.txt
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228 <211> LENGTH: 50
230 <212> TYPE: DNA
232 <213> ORGANISM: Artificial Sequence
236 <220> FEATURE:
238 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
240 <220> FEATURE:
242 <221> NAME/KEY: misc_feature
244 <222> LOCATION: (1)..(50)
246 <223> OTHER INFORMATION: primer HSA2
250 <400> SEQUENCE: 7
251 gttagatcta agcttgtcga catcgatcta ctaacagtag agatgtagaa          50
254 <210> SEQ ID NO: 8
256 <211> LENGTH: 21
258 <212> TYPE: DNA
260 <213> ORGANISM: Artificial Sequence
264 <220> FEATURE:
266 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
268 <220> FEATURE:
270 <221> NAME/KEY: misc_feature
272 <222> LOCATION: (1)..(21)
274 <223> OTHER INFORMATION: primer 1
278 <400> SEQUENCE: 8
279 gggtattagg ccaaaggcgc a                                         21
282 <210> SEQ ID NO: 9
284 <211> LENGTH: 33
286 <212> TYPE: DNA
288 <213> ORGANISM: Artificial Sequence
292 <220> FEATURE:
294 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
296 <220> FEATURE:
298 <221> NAME/KEY: misc_feature
300 <222> LOCATION: (1)..(33)
302 <223> OTHER INFORMATION: primer 2
306 <400> SEQUENCE: 9
307 gatcccatgg aagcttgggt ggcgacccca gcg                            33
310 <210> SEQ ID NO: 10
312 <211> LENGTH: 36
314 <212> TYPE: DNA
316 <213> ORGANISM: Artificial Sequence
320 <220> FEATURE:
322 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
324 <220> FEATURE:
326 <221> NAME/KEY: misc_feature
328 <222> LOCATION: (1)..(36)
330 <223> OTHER INFORMATION: primer 3
334 <400> SEQUENCE: 10
335 gatcccatgg ggatccttta ctaagttaca aagcta                         36
338 <210> SEQ ID NO: 11
340 <211> LENGTH: 19
```

RAW SEQUENCE LISTING   DATE: 11/13/2002
PATENT APPLICATION: US/10/040,949A   TIME: 14:06:00

Input Set : A:\EP.txt
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```
342 <212> TYPE: DNA
344 <213> ORGANISM: Artificial Sequence
348 <220> FEATURE:
350 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
352 <220> FEATURE:
354 <221> NAME/KEY: misc_feature
356 <222> LOCATION: (1)..(19)
358 <223> OTHER INFORMATION: primer 4
362 <400> SEQUENCE: 11
363 gtcgctgtag ttggactgg                                              19
366 <210> SEQ ID NO: 12
368 <211> LENGTH: 42
370 <212> TYPE: DNA
372 <213> ORGANISM: Artificial Sequence
376 <220> FEATURE:
378 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
380 <220> FEATURE:
382 <221> NAME/KEY: primer_bind
384 <222> LOCATION: (1)..(42)
386 <223> OTHER INFORMATION: primer NY-up
390 <400> SEQUENCE: 12
391 cgacatatgt agatgcatta gtttgtgtta tgtttcaacg tg                    42
394 <210> SEQ ID NO: 13
396 <211> LENGTH: 19
398 <212> TYPE: DNA
400 <213> ORGANISM: Artificial Sequence
404 <220> FEATURE:
406 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
408 <220> FEATURE:
410 <221> NAME/KEY: primer_bind
412 <222> LOCATION: (1)..(19)
414 <223> OTHER INFORMATION: primer NY-down
418 <400> SEQUENCE: 13
419 ggagaccact gccatgttg                                              19
422 <210> SEQ ID NO: 14
424 <211> LENGTH: 10
426 <212> TYPE: DNA
428 <213> ORGANISM: Artificial Sequence
432 <220> FEATURE:
434 <223> OTHER INFORMATION: Description of Artificial Sequence: oligo linker
436 <400> SEQUENCE: 14
437 ttaagtcgac                                                        10
440 <210> SEQ ID NO: 15
442 <211> LENGTH: 32
444 <212> TYPE: DNA
446 <213> ORGANISM: Artificial Sequence
450 <220> FEATURE:
452 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
454 <220> FEATURE:
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RAW SEQUENCE LISTING   DATE: 11/13/2002
PATENT APPLICATION: **US/10/040,949A**   TIME: 14:06:00

Input Set : **A:\EP.txt**
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```
456 <221> NAME/KEY: primer_bind
458 <222> LOCATION: (1)..(32)
460 <223> OTHER INFORMATION: LacZ primer 1
464 <400> SEQUENCE: 15
465 ggggtggcca gggtacctct aggcttttgc aa                          32
468 <210> SEQ ID NO: 16
470 <211> LENGTH: 29
472 <212> TYPE: DNA
474 <213> ORGANISM: Artificial Sequence
478 <220> FEATURE:
480 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
482 <220> FEATURE:
484 <221> NAME/KEY: primer_bind
486 <222> LOCATION: (1)..(29)
488 <223> OTHER INFORMATION: LacZ primer 2
492 <400> SEQUENCE: 16
493 ggggggatcc ataaacaagt tcagaatcc                              29
496 <210> SEQ ID NO: 17
498 <211> LENGTH: 35
500 <212> TYPE: DNA
502 <213> ORGANISM: Artificial Sequence
506 <220> FEATURE:
508 <223> OTHER INFORMATION: Description of Artificial Sequence: oligonucleotide
510 <220> FEATURE:
512 <221> NAME/KEY: misc_feature
514 <222> LOCATION: (1)..(35)
516 <223> OTHER INFORMATION: tail oligonucleotide
520 <220> FEATURE:
522 <221> NAME/KEY: misc_feature
524 <222> LOCATION: (11)..(16)
526 <223> OTHER INFORMATION: contains a NdeI restriction site at positions 11-16
530 <400> SEQUENCE: 17
531 cccgtgtatc catatgatgc agacaacgac cgacc                       35
534 <210> SEQ ID NO: 18
536 <211> LENGTH: 27
538 <212> TYPE: DNA
540 <213> ORGANISM: Artificial Sequence
544 <220> FEATURE:
546 <223> OTHER INFORMATION: Description of Artificial Sequence: oligonucleotide
548 <220> FEATURE:
550 <221> NAME/KEY: misc_feature
552 <222> LOCATION: (1)..(27)
554 <223> OTHER INFORMATION: tail oligonucleotide
558 <220> FEATURE:
560 <221> NAME/KEY: misc_feature
562 <222> LOCATION: (1)..(27)
564 <223> OTHER INFORMATION: tail oligonucleotide
568 <220> FEATURE:
570 <221> NAME/KEY: misc_feature
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RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 11/13/2002
PATENT APPLICATION: US/10/040,949A   TIME: 14:06:01

Input Set : A:\EP.txt
Output Set: N:\CRF4\11132002\J040949A.raw

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:32; Xaa Pos. 1,2,3,4,5,23,41,43,49,385
Seq#:37; Xaa Pos. 141
Seq#:41; Xaa Pos. 23,43,49,97,152,186
Seq#:48; Xaa Pos. 43,49,97,192
Seq#:50; Xaa Pos. 237
Seq#:51; Xaa Pos. 4,232,233
Seq#:57; Xaa Pos. 262

VERIFICATION SUMMARY   DATE: 11/13/2002
PATENT APPLICATION: **US/10/040,949A**   TIME: 14:06:01

Input Set : **A:\EP.txt**
Output Set: **N:\CRF4\11132002\J040949A.raw**

```
L:1412 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0
L:1416 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:16
L:1420 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:32
L:1424 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:48
L:1508 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:384
L:2017 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:128
L:2507 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:16
L:2511 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:32
L:2515 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:48
L:2527 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:96
L:2539 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:144
L:2547 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:176
L:3381 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:32
L:3385 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:48
L:3397 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:96
L:3417 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:176
L:3672 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:224
L:3756 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:0
L:3812 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:224
L:4499 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57 after pos.:256
```